

SEQUENCE LISTING

<110> BERNSTEIN, Harold S.
COUGHLIN, Shaun R.

<120> METHODS AND COMPOSITIONS FOR REGULATING CELL CYCLE
PROGRESSION

<130> UCSF-020/02US

<140> Not Yet Available

<141> 2001-01-08

<150> US 09/156,316

<151> 1998-09-18

<150> US 60/060,688

<151> 1997-09-22

<160> 46

<170> PatentIn Ver. 2.1

<210> 1

<211> 802

<212> PRT

<213> Homo sapiens

<400> 1

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Glu Ile Leu Lys Ala Ala Val Met Lys Tyr Gly Lys Asn Gln Trp Ser
20 25 30

Arg Ile Ala Ser Leu Leu His Arg Lys Ser Ala Lys Gln Cys Lys Ala
35 40 45

Arg Trp Tyr Glu Trp Leu Asp Pro Ser Ile Lys Lys Thr Glu Trp Ser
50 55 60

Arg Glu Glu Glu Glu Lys Leu Leu His Leu Ala Lys Leu Met Pro Thr
65 70 75 80

Gln Trp Arg Thr Ile Ala Pro Ile Ile Gly Arg Thr Ala Ala Gln Cys
85 90 95

Leu Glu His Tyr Glu Phe Leu Leu Asp Lys Ala Ala Gln Arg Asp Asn
100 105 110

Glu Glu Glu Thr Thr Asp Asp Pro Arg Lys Leu Lys Pro Gly Glu Ile
115 120 125

Asp Pro Asn Pro Glu Thr Lys Pro Ala Arg Pro Asp Pro Ile Asp Met
130 135 140

Asp Glu Asp Glu Leu Glu Met Leu Ser Glu Ala Arg Ala Arg Leu Ala

145		150		155		160
Asn Thr Gln Gly Lys Lys Ala Lys Arg Lys Ala Arg Glu Lys Gln Leu	165	170	175			
Glu Glu Ala Arg Arg Leu Ala Ala Leu Gln Lys Arg Arg Glu Leu Arg	180	185	190			
Ala Ala Gly Ile Glu Ile Gln Lys Lys Arg Lys Arg Lys Arg Gly Val	195	200	205			
Asp Tyr Asn Ala Glu Ile Pro Phe Glu Lys Lys Pro Ala Leu Gly Phe	210	215	220			
Tyr Asp Thr Ser Glu Glu Asn Tyr Gln Ala Leu Asp Ala Asp Phe Arg	225	230	235			240
Lys Leu Arg Gln Gln Asp Leu Asp Gly Glu Leu Arg Ser Glu Lys Glu	245	250	255			
Gly Arg Asp Arg Lys Lys Asp Lys Gln His Leu Lys Arg Lys Lys Glu	260	265	270			
Ser Asp Leu Pro Ser Ala Ile Leu Gln Thr Ser Gly Val Ser Glu Phe	275	280	285			
Thr Lys Lys Arg Ser Lys Leu Val Leu Pro Ala Pro Gln Ile Ser Asp	290	295	300			
Ala Glu Leu Gln Glu Val Val Lys Val Gly Gln Ala Ser Glu Ile Ala	305	310	315			320
Arg Gln Thr Ala Glu Glu Ser Gly Ile Thr Asn Ser Ala Ser Ser Thr	325	330	335			
Leu Leu Ser Glu Tyr Asn Val Thr Asn Asn Ser Val Ala Leu Arg Thr	340	345	350			
Pro Arg Thr Pro Ala Ser Gln Asp Arg Ile Leu Gln Glu Ala Gln Asn	355	360	365			
Leu Met Ala Leu Thr Asn Val Asp Thr Pro Leu Lys Gly Gly Leu Asn	370	375	380			
Thr Pro Leu His Glu Ser Asp Phe Ser Gly Val Thr Pro Gln Arg Gln	385	390	395			400
Val Val Gln Thr Pro Asn Thr Val Leu Ser Thr Pro Phe Arg Thr Pro	405	410	415			
Ser Asn Gly Ala Glu Gly Leu Thr Pro Arg Ser Gly Thr Thr Pro Lys	420	425	430			
Pro Val Ile Asn Ser Thr Pro Gly Arg Thr Pro Leu Arg Asp Lys Leu	435	440	445			
Asn Ile Asn Pro Glu Asp Gly Met Ala Asp Tyr Ser Asp Pro Ser Tyr						

450	455	460
Val Lys Gln Met Glu Arg Glu Ser Arg Glu His Leu Arg Leu Gly Leu		
465	470	475 480
Leu Gly Leu Pro Ala Pro Lys Asn Asp Phe Glu Ile Val Leu Pro Glu		
	485	490 495
Asn Ala Glu Lys Glu Leu Glu Glu Arg Glu Ile Asp Asp Thr Tyr Ile		
	500	505 510
Glu Asp Ala Ala Asp Val Asp Ala Arg Lys Gln Ala Ile Arg Asp Ala		
	515	520 525
Glu Arg Val Lys Glu Met Lys Arg Met His Lys Ala Val Gln Lys Asp		
	530	535 540
Leu Pro Arg Pro Ser Glu Val Asn Thr Glu Ile Leu Arg Pro Leu Asn		
	545	550 555 560
Val Glu Pro Pro Leu Thr Asp Leu Gln Lys Ser Glu Glu Leu Ile Lys		
	565	570 575
Lys Glu Met Ile Thr Met Leu His Tyr Asp Leu Leu His His Pro Tyr		
	580	585 590
Glu Pro Ser Gly Asn Lys Lys Gly Lys Thr Val Gly Phe Gly Thr Asn		
	595	600 605
Asn Ser Glu His Ile Thr Tyr Leu Glu His Asn Pro Tyr Glu Lys Phe		
	610	615 620
Ser Lys Glu Glu Leu Lys Lys Ala Gln Asp Val Leu Val Gln Glu Met		
	625	630 635 640
Glu Val Val Lys Gln Gly Met Ser His Gly Glu Leu Ser Ser Glu Ala		
	645	650 655
Tyr Asn Gln Val Trp Glu Glu Cys Tyr Ser Gln Val Leu Tyr Leu Pro		
	660	665 670
Gly Gln Ser Arg Tyr Thr Arg Ala Asn Leu Ala Ser Lys Lys Asp Arg		
	675	680 685
Ile Glu Ser Leu Glu Lys Arg Leu Glu Ile Asn Arg Gly His Met Thr		
	690	695 700
Thr Glu Ala Lys Arg Ala Ala Lys Met Glu Lys Lys Met Lys Ile Leu		
	705	710 715 720
Leu Gly Gly Tyr Gln Ser Arg Ala Met Gly Leu Met Lys Gln Leu Asn		
	725	730 735
Asp Leu Trp Asp Gln Ile Glu Gln Ala His Leu Glu Leu Arg Thr Phe		
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Glu Glu Leu Lys Lys His Glu Asp Ser Ala Ile Pro Arg Arg Leu Glu		

755 760 765
 Cys Leu Lys Glu Asp Val Gln Arg Gln Gln Glu Arg Glu Lys Glu Leu
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 Gln His Arg Tyr Ala Asp Leu Leu Leu Glu Lys Glu Thr Leu Lys Ser
 785 790 795 800
 Lys Phe

<210> 2
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 <213> Homo sapiens

<400> 2
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 1 5 10 15
 Ala Val Met Lys Tyr Gly Lys Asn Gln Trp Ser Arg Ile Ala Ser Leu
 20 25 30
 Leu His Arg Lys Ser Ala Lys Gln Cys Lys Ala Arg Trp Tyr Glu Trp
 35 40 45
 Leu Asp Pro
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<210> 3
 <211> 51
 <212> PRT
 <213> Schizosaccharomyces pombe

<400> 3
 Leu Lys Gly Gly Ala Trp Lys Asn Thr Glu Asp Glu Ile Leu Lys Ala
 1 5 10 15
 Ala Val Ser Lys Tyr Gly Lys Asn Gln Trp Ala Arg Ile Ser Ser Leu
 20 25 30
 Leu Val Arg Lys Thr Pro Lys Gln Cys Lys Ala Arg Trp Tyr Glu Trp
 35 40 45
 Ile Asp Pro
 50

<210> 4
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 <213> Homo sapiens

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1 5 10 15

Val Lys Lys Tyr Gly Thr Lys Gln Trp Thr Leu Ile Ala Lys His Leu
 20 25 30

Lys Gly Arg Leu Gly Lys Gln Cys Arg Glu Arg Trp His Asn His Leu
 35 40 45

Asn Pro
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<210> 5
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 5

Ile Lys Gly Pro Trp Thr Lys Glu Glu Asp Gln Lys Val Ile Glu Leu
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Val Gln Lys Tyr Gly Pro Lys Arg Trp Ser Leu Ile Ala Lys His Leu
 20 25 30

Lys Gly Arg Ile Gly Lys Gln Cys Arg Glu Arg Trp His Asn His Leu
 35 40 45

Asn Pro
 50

<210> 6
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 6

Ile Lys Gly Pro Trp Thr Lys Glu Glu Asp Gln Lys Val Ile Glu Leu
 1 5 10 15

Val Gln Lys Tyr Gly Pro Lys Arg Trp Ser Val Ile Ala Lys His Leu
 20 25 30

Lys Gly Arg Ile Gly Lys Gln Cys Arg Glu Arg Trp His Asn His Leu
 35 40 45

Asn Pro
 50

<210> 7
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 7

Pro Leu Lys Gly Gly Leu Asn Thr Pro Leu His Glu Ser Asp Phe Ser

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Gly Val Thr Pro Gln Arg Gln Val Val Gln Thr Pro Asn Thr Val Leu	20	25	30
Ser Thr Pro Phe Arg Thr Pro Ser Asn Gly Ala Glu Gly Leu Thr Pro	35	40	45
Arg Ser Gly Thr Thr Pro Lys Pro Val Ile Asn Ser Thr Pro Gly Arg	50	55	60
Thr Pro Leu Arg Asp Lys Leu Asn Ile Asn Pro Glu Asp Gly Met Ala	65	70	75
Asp Tyr Ser Asp Pro Ser Tyr Val Lys Gln Met Glu Arg Glu Ser Arg	85	90	95
Glu His Leu Arg Leu Gly Leu Leu Gly Leu Pro Ala Pro Lys Asn Asp	100	105	110
Phe Glu Ile Val Leu Pro Glu Asn Ala Glu Lys	115	120	

<210> 8
 <211> 107
 <212> PRT
 <213> Schizosaccharomyces pombe

<400> 8
Ser Val Thr Ile Glu Val Arg Asn Gln Leu Met Asn Arg Glu Gln Ser
1 5 10 15
Ser Leu Leu Gly Gln Glu Ser Ile Pro Leu Gln Pro Gly Gly Thr Gly
20 25 30
Tyr Thr Gly Val Thr Pro Ser His Ala Ala Asn Gly Ser Ala Leu Ala
35 40 45
Ala Pro Gln Ala Thr Pro Phe Arg Thr Pro Arg Asp Thr Phe Ser Ile
50 55 60
Asn Ala Ala Ala Glu Arg Ala Gly Arg Leu Ala Ser Glu Arg Glu Asn
65 70 75 80
Lys Ile Arg Leu Lys Ala Leu Arg Glu Leu Leu Ala Lys Leu Pro Lys
85 90 95
Pro Lys Asn Asp Tyr Glu Leu Met Glu Pro Arg
100 105

<210> 9
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 9

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Pro Val Lys Thr Leu Pro Phe Ser Pro Ser Gln Phe Leu Asn Phe Trp
 1           5           10           15

Asn Lys Gln Asp Thr Leu Glu Leu Glu Ser Pro Ser Leu Thr Ser Thr
      20           25           30

Pro Val Cys Ser Gln Lys Val Val Val Thr Thr Pro Leu His Arg Asp
      35           40           45

Lys Thr Pro Leu His Gln Lys His Ala Ala Phe Val Thr Pro Asp Gln
      50           55           60

Lys Tyr Ser Met Asp Asn Thr Pro His Thr Pro Thr Pro Phe Lys Asn
      65           70           75           80

Ala Lys Tyr Gly Pro Leu Lys Pro Leu Pro Gln Thr Pro His Leu Glu
      85           90           95

Glu Asp Leu Lys Glu Val Leu Arg Ser Glu Ala Gly Ile Glu Leu Ile
      100           105           110

Ile Glu Asp Asp Ile Arg Pro
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<210> 10

<211> 123

<212> PRT

<213> Homo sapiens

<400> 10

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Ile Leu Arg Lys Lys Arg Lys Met Arg Val Gly His Ser Pro Gly Ser
 1           5           10           15

Glu Leu Arg Asp Gly Ser Leu Asn Asp Gly Gly Asn Met Ala Leu Lys
      20           25           30

His Thr Pro Leu Lys Thr Leu Pro Phe Ser Pro Ser Gln Phe Phe Asn
      35           40           45

Thr Cys Pro Gly Asn Glu Gln Leu Asn Ile Glu Asn Pro Ser Phe Thr
      50           55           60

Ser Thr Pro Ile Cys Gly Gln Lys Ala Leu Ile Thr Thr Pro Leu His
      65           70           75           80

Lys Glu Thr Thr Pro Lys Asp Gln Lys Glu Asn Val Gly Phe Arg Thr
      85           90           95

Pro Thr Ile Arg Arg Ser Ile Leu Gly Thr Pro Arg Thr Pro Thr Pro
      100           105           110

Phe Lys Asn Ala Leu Ala Ala Gln Glu Lys Lys
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 aggggggctg atggaggaat accgaggatg aaattctgaa agcagcggta atgaaatatg 180
 ggaaaaatca gtggtctagg attgcctcat tgctgcatag aaaatcagca aagcagtgcg 240
 aagccagatg gtatgaatgg ctggatccaa gcattaagaa gacagaatgg tccagagaag 300
 aagaggaaaa actcttgccac ttggccaagt tgatgccaac tcagtggagg accattgctc 360
 caatcattgg aagaacagcg gccagtgctc tagaacacta tgaatttctt ctggataaag 420
 ctgcccacaa agacaatgaa gaggaacaaa cagatgatcc acgaaaactt aaacctggag 480
 aaatagatcc aaatccagaa acaaaaccag cgcggcctga tccaattgat atggatgagg 540
 atgaacttga gatgctttct gaagccagag ccgcttggtc taatactcag ggaaagaagg 600
 ccaagaggaa agcaagagag aaacaatttg aagaagcaag acgtcttgct gccctccaaa 660
 aaagaagaga acttcgagca gctggcatag aaattcagaa gaaaagaaaa aggaagagag 720
 gagttgatta taatgccgaa atcccatttg aaaaaaagcc tgcccttggt ttttatgata 780
 cttctgagga aaactacca gctcttgacg cagatttcag gaaattaaga caacaggatc 840
 ttgatgggga gctaagatct gaaaaagaag gaagagatag aaaaaaagac aaacagcatt 900
 tgaaaaggaa aaaagaatct gatttaccat cagctattct tcaaaactag ggtgtttctg 960
 aatttactaa aaagagaagc aaactagtac ttctgcccc tcagatttca gatgcagaac 1020
 tccaggaagt tgtaaaagta ggccaagcga gtgaaattgc acgtcaaact gccgaggaat 1080
 ctggcataac aaattctgct tccagtacac ttttgtctga gtacaatgtc accaacaaca 1140
 gcgttgctct tagaacacca cgaacaccag cttcccagga cagaattctg caggaagccc 1200
 agaacctcat ggccctcacc aatgtggaca cccattgaa aggtggactt aatacccat 1260
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 cagttctctc tactccattc aggactcctt ctaatggagc tgaagggctg actccccgga 1380
 gtggaacaac tcccaaacca gttattaact ctactccggg tagaactcct cttcgagaca 1440
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 gatatgctga tttgctgctg gagaaagaga ctttaaagtc aaaattctga agtacagttt 2520
 atattctgtc acaggattaa ttaattgccg gttttcatac tctagaaggc tgaaactgat 2580
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 gatatcgatc ttacacattc tgtgtataaa gaccttaact ccacaggacg gacatttttag 2700
 agtttaaaatt attaaaggcta tcattctttt agtaatgtca tatttgcaaa ctttttttagt 2760
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 aaaacaaaa ataaaaa 2837

<210> 12
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<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: epitope for M2
monoclonal antibody

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Asp Tyr Lys Asp Asp Asp Lys
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<210> 13

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

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gatttaacat aa

12

<210> 14

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 14

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9

<210> 15

<211> 15

<212> DNA

<213> Homo sapiens

<400> 15

aataaaatca aaatt

15

<210> 16

<211> 15

<212> DNA

<213> Homo sapiens

<400> 16

aaaggggaac acttt

15

<210> 17

<211> 55

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic

<220>
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 <222> (21)..(35)
 <223> n = Any Nucleotide

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<210> 18
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic

<400> 18
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<210> 19
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic

<400> 19
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<210> 20
 <211> 11
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 20
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<210> 21
 <211> 12
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic

<400> 21
 tatttaacat aa 12

<210> 22
 <211> 12
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 22
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<210> 23
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 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 23
 gagttaacat aa 12

<210> 24
 <211> 12
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<220>
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<400> 24
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<210> 25
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<400> 25
 gattgaacat aa 12

<210> 26
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<210> 27
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<400> 27
gatttaccat aa 12

<210> 28
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<400> 28
gatttaatat aa 12

<210> 29
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 29
gatttaacct aa 12

<210> 30
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
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<400> 30
gatttaacag aa 12

<210> 31
<211> 12
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<220>
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<400> 31
gatttaacat ca 12

<210> 32
<211> 12
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<220>
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<400> 32

gatttaacat ac 12

<210> 33
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<400> 33
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<210> 34
 <211> 26
 <212> DNA
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<400> 34
 aattccccgg atcattgcaa acaatt 26

<210> 35
 <211> 17
 <212> DNA
 <213> Homo sapiens

<400> 35
 aatgaacgaa tcaaatt 17

<210> 36
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 <212> DNA
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<220>
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<210> 37
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<400> 37
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<210> 38
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<210> 39

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 39

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12

<210> 40

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 40

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12

<210> 41

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

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<210> 42

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 42

ggtaggata gg

12

<210> 43

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 43

gttgagtagt at

12

<210> 44
<211> 12
<212> DNA
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<220>
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<400> 44
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<210> 45
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 45
ggtgttattg at 12

<210> 46
<211> 90
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<220>
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ttaacataag atttaacata aactctagag 90

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<211> 22
<212> DNA
<213> Artificial Sequence

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<400> 47
cgtgtacatc gactgaaatc cc 22

<210> 48
<211> 120
<212> DNA
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<220>
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agtactgtcc tccgcgattt aacataagat ttaacataag atttaacata aactctagag 120

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<210> 50
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<220>
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<400> 50
gatgtaacat ac 12

g
a
t
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t
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